bio-protocol Preprint

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On-scope validation of spatially controlled DNA hybridization

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An abbreviated version of this protocol was published in nature methods in Jul 2022

ZipSeq: barcoding for real-time mapping of single cell transcriptomes

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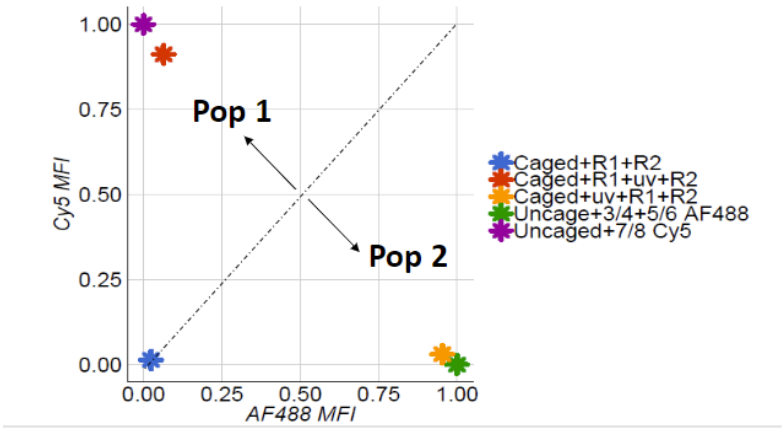
Detailed protocol



Example of an experiment where we apply two rounds of ZipCodes, one zipcode w Cy5, another with AF488 conjugated. Blue represents a negative, purple the highest amount of Cy5 oligo hybridization and green the highest amount of AF488 oligo hybridization possible. yellow is the expmnt with uv illlunination followed by application of zc1 (AF88) followed by zc2 (Cy5) showing some, but minimal carryover binding. Same for Red, but inverted in order.

How to cite:(Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Hu, K. and Krummel, M. (2022). On-scope validation of spatially controlled DNA hybridization. Bio-protocol Preprint. bio-protocol.org/prep1854.
2. Hu, K., Eichorst, J., McGinnis, C., Patterson, D., Chow, E., Kersten, K., Jameson, S., Gartner, Z., Rao, A. and Krummel, M.(2022). ZipSeq: barcoding for real-time mapping of single cell transcriptomes. nature methods 17(0). DOI: 10.1038/s41592-020-0880-2